

DXG-202V

User's Manual



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1. Attention

Please read through this manual carefully before using the Digital Video Camera and follow the instructions to avoid damage caused by improper operation.

Safety Precautions

- The software CD-ROM packaged with the Digital Video Camera is for PC only. Do not attempt to play the CD-ROM on a stereo or CD player.
- This Digital Video Camera is a precision electronic device. Do not attempt to service this Digital Video Camera yourself. Opening or removing covers may expose you to dangerous voltage points or other risks. Do not expose this Digital Video Camera to direct sunlight to avoid causing a fire.

Before Using Your Digital Video Camera

- Try to take some pictures before using it for formal recording. Before taking pictures with this Digital Video Camera for any important occasion (such as a wedding ceremony or an overseas trip), test the Digital Video Camera beforehand to ensure that it functions well. Any additional loss caused by the malfunctioning of this product (such as costs of photography or any loss of benefit generated by the photography) is not the responsibility of our company and no compensation will be given for it.
- Copyright information
Unless agreed to by the rightful owner, all the pictures taken with this Digital Video Camera must not be used in violation of copyright law. Moreover, when "No Photography" restrictions are in place, you may not record any live performance, improvisation or exhibit, even if it is for personal purposes. Any transfer of pictures and data or use of memory card must be conducted under the constraints of copyright law.
- Notes on the LCD (Liquid Crystal Display) monitor fluid
 1. Skin Contact:
Please wipe dry the skin with a cloth and wash flush with large amounts of water.
 2. Eye Contact:
Please immediately rinse with fresh water for at least 15 minutes, then consult with a doctor to receive treatment as soon as possible.
 3. Swallowing/Ingestion:
Please rinse the mouth with water, drink large amount of water and receive medical treatment as soon as possible.

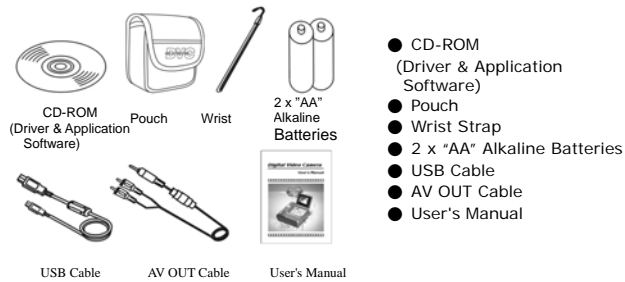
Operational Precautions

This product consists of intricate electrical parts. To ensure normal photography, do not drop or hit the camera when taking pictures.

- Avoid using or placing the Digital Video Camera in the following locations:
 1. Damp and dusty places.
 2. Sealed vehicles or places exposed to direct sunlight or places subject to extremely high temperatures.
 3. High vibration.
 4. Smoke, fumes or steam.
 5. Magnetic fields.
 6. Rain, snow or other precipitations.
- Do not open the battery cover when the power is on.
- If water has entered the camera, immediately turn the power off and remove the batteries.
- How to maintain your camera:
 1. If the lens or LCD monitor surface is dirty, please use lens brush or soft cloth to wipe them clean instead of touching them with your fingers.
 2. Do not use any solid object to hit the Digital Video Camera to avoid scratching the lens, or LCD monitor surface.
 3. Do not use any detergent or volatile solution, which will subject the Digital Video Camera case and paint to damage or distortion. Use soft cloth only.

Package Contents

Please check if the following items are in the package when purchasing this product.



2. Familiarization: Getting to Know Your Camera

Digital Video Camera Controls

Front Side View

- ❶ Shutter
- ❷ Self-timer LED
- ❸ Flash
- ❹ Lens
- ❺ Microphone



Left Side View

- ❶ Set Button-

- ❷ Mode Switch
 - 1. Capture Mode
 - 2. Movie Mode
 - 3. Voice Mode



- ❸ Battery Cover and SD Card slot

Right Side View

- ❶ Macro Switch.

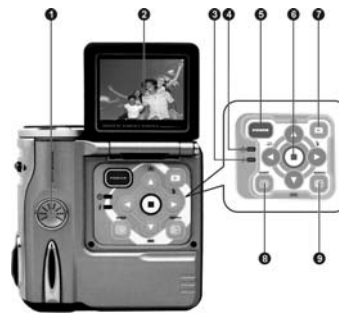
Terminal Compartment (Ports)

- ❷ Audio/Video Output Port
- ❸ USB Port







Top View

- ❶ Speaker
- ❷ Color Liquid Crystal Display
- ❸ Flash LED
- ❹ Power LED
- ❺ Power Button
- ❻ Enter Button
- ❼ Playback Button
- ❽ Display Button
- ❾ Menu Button



Battery power level

-  Full battery power
-  Medium battery power
-  Low battery power
-  Battery exhausted

3. Getting Started

Preparing Your Digital Video Camera

- **Step 1** Insert two "AA" batteries into the battery compartment.
- **Step 2** When inserting SD/MMC memory card, follow the icon shown in the compartment to insert or remove the card push-and-pull.



Then, push the memory card all the way into the memory compartment and close the battery door, push the battery door down and then slide it closed.

Note: When memory card is inserted, the internal 16MB flash memory is disabled.

- **Step 3** Attach the wrist strap to the strap holder in the side of the Digital Video Camera as illustrated in the picture below.



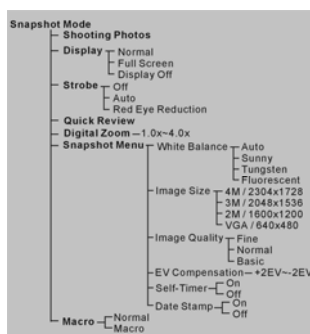
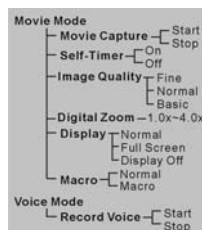
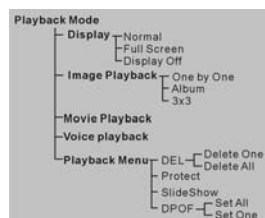
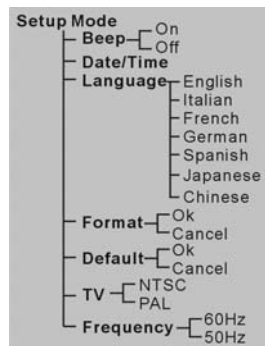
4. Start Using Your Digital Video Camera

● **Step 1** Press the **Power** button to turn on the Digital Video Camera. The Power LED will light up.

● **Step 2** The LCD Display will turn on.

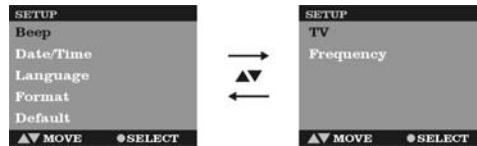
Note: The LCD Display turns off automatically if you do not operate it for 30 seconds. The camera turns off automatically if you do not operate it for over 60 seconds.

Function Tree



Setup Mode

Press the **Set** button to enter the setup menu.



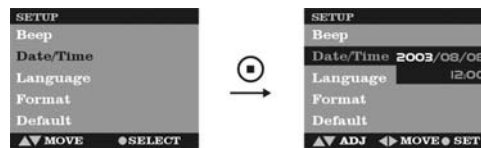
You can configure the basic settings:

1. **Beep**--Sound On/Off.
2. **Date/Time**--Date & time settings.
3. **Language**--Language settings.
4. **Format**--Format the internal memory or memory cards.
5. **Default**--Reset to preliminary settings.
6. **TV**--TV output format setting: NTSC/PAL
7. **Frequency**--Fluorescent frequency: 50Hz/60Hz

Date/Time setting

●**Step 1.** Press **▲▼** to move to the **Date/Time** option.

●**Step 2.** Press **Enter** button to bring up the menu.



●**Step 3.** Press **▲▼** to adjust Date/Time; press **◀▶** to select year, month, day, hour or minute.

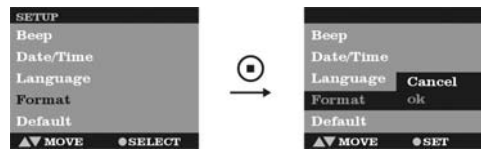
●**Step 4.** Press **Enter** button to save your settings and then exit.

Formatting the Memory Card

Format your SD/MMC memory card before using it to store pictures.

● **Step 1.** Press **▲▼** to move down to the **Format** option.

● **Step 2.** Press **Enter** button to bring up the "Cancel/OK" Menu.



● **Step 3.** To format the memory card, select **"ok"** on the screen and then press the **Enter** button. You will hear a ring sound when you press it.

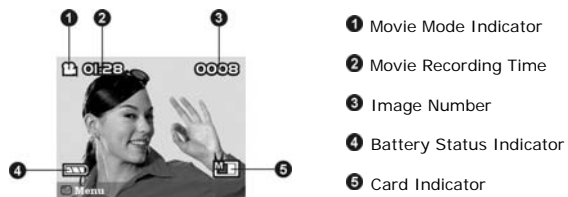
● **Step 4.** The Digital Video Camera then begins formatting the memory card. Wait for the formatting process to finish.

● **Step 5.** Upon formatting, memory card files will be deleted: **Format OK**

Movie Mode


Slide the **Mode switch** to select **Movie Mode**

Status Identifier



Recording Video

Video is recorded at a rate of approximately 15 frames per second in AVI format.

- **Step 1.** Press the **Shutter** button once to start recording video. You will see live views of the subjects or scenes you are recording on the LCD.
- **Step 2** While recording, a red icon  blinks on the upper left side of the LCD Display and the record time increments. The icon stops blinking and becomes green after you terminate the recording process.



- **Step 3** To stop recording, press the **Shutter** button again.

Recording Video with Self-timer


To use the Self-Timer function for recording video clips, press the **Menu** button to switch the timer on and off. With the timer set to on, the icon  will appear on center of LCD panel.

Image quality setting

Same as **Capture Mode** (p.17).

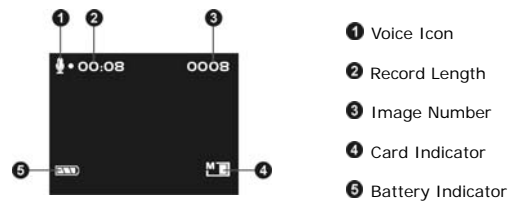


Voice mode

You can record voice sounds and music just as you can with any recorder. The file format standard it uses is Microsoft WAV (.wav). These .wav files can be played on the Digital Video Camera, your PC or on a standard television. First connect

the camera must be connected to the display output device (monitor or TV) with the AV cable.


Status Identifier



Record Voice

Dial the **Mode Switch** to **Voice**

●**Step 1.** Press the **Shutter** button once to start recording voice.

●**Step 2.** While you are recording, an red icon  blinks on the upper left side of the LCD Display. The icon turn to green after you terminate the recording process. The recording time is displayed as you shoot.

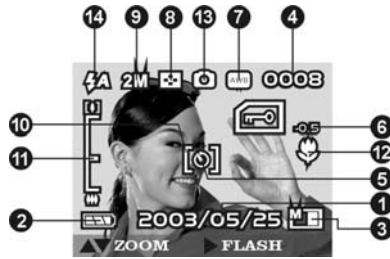
Step 3. Press the **Shutter** button to stop the voice recording.

The voice playback function is in **Playback** mode.

Capture Mode

Turn the **Mode Switch** to **Capture Mode**

Status Identifier



- ① **Date Stamp** (Default is not displayed).
- ② **Battery Status Indicator:**
 (Full) Half Low Empty
- ③ **Memory Card Status:** Card inside Or Not.
- ④ **Image Number**
- ⑤ **Self-timer Indicator**
- ⑥ **EV Level**
- ⑦ **White Balance:** Auto, Sunny, Tungsten, Fluorescent.
- ⑧ **Image Quality:** Fine, Normal, Basic.
- ⑨ **Image Size:** **4M** (2304x1728), **3M** (2048x1536),
2M (1600x1200), **VGA** (640x480).
- ⑩ **EV Lock Indicator** (Press **Shutter** button half way).
- ⑪ **Zoom Lever:** (Normal), (4.0x Zoom).
- ⑫ **Macro Indicator**
- ⑬ **Capture Mode Indicator**
- ⑭ **Flash Mode:** (OFF), (Auto),

⑮ Warnings:

- Card Lock:** this symbol blinks if the **Shutter** button is pressed with the memory card locked.
- Memory Full,** this symbol shows up blinking when the internal memory or the inserted memory card is full.


Shooting Photos

Taking pictures with your Digital Video Camera is a snap. Just point and shoot!

- **Step 1.** Turn on camera.
- **Step 2.** Frame the subject in the LCD Display.
- **Step 3.** Press the **Shutter** button to take a picture.


The picture will remain on the display until it is stored in the memory. When the LCD Display resumes, you can starting setting up your next shot.

Close-up pictures



- **Step 1.** Push the **Macro switch** downwards to select the **Macro mode** . The Macro indicator  appears on the LCD.
- **Step 2.** Position the lens between 25~30cm distance (10-12")



Portrait and distance pictures

- **Step 1.** Push the Macro switch upward for normal mode. The icon  on the LCD panel will disappear, allowing you to take pictures of people or sceneries from 1.2m~infinity.
- **Step 2.** To take pictures, follow the steps in the "Shooting Photos" section.

Digital Zoom

Press   to enter **Zoom in/Zoom out** functions. The framed image can be zoomed between 1.0X ~4.0X.

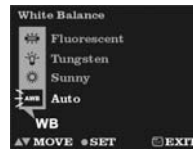


Snapshot Menu

In **Capture mode**, press **Menu** button to enter **Snapshot Menu**:

White Balance Setting

- **Step 1.** Use ◀▶ to select **WB** on the menu bar.
- **Step 2.** Press the **Enter** button to enter White Balance setting menu.



- **Step 3.** You can use ▲▼ to select **Auto**, **Sunny**, **Tungsten**, and **Fluorescent**.
- **Step 4.** Press the **Enter** button to confirm your selection, or press **Menu** button to cancel it.


Image Size Setting

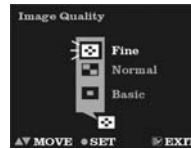
- **Step 1.** Use ◀▶ to select the image size icon on menu bar.
- **Step 2.** Press the **Enter** button to enter **Image Size** setting menu.



- **Step 3** You can use ▲▼ to select:
VGA: 640 x 480
2M: 1600 x 1200
3M: 2048 x 1536 pixels
4M: 2304 x 1728 pixels
- **Step 4.** Press the **Enter** button to confirm your selection. Press the **Menu** button to cancel it.

Image Quality Setting

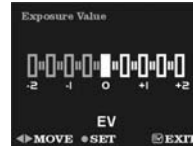
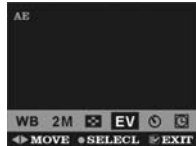
- **Step 1.** Use ◀▶ to select  on the menu bar.
- **Step 2.** Press the **Enter** button to enter the Image Quality menu.



- **Step 3** Use ▲▼ to select **Fine**, **Normal** or **Basic**
- **Step 4** Press **Enter** button to confirm your selection, or press **Menu** button to cancel it.


Exposure Value Setting

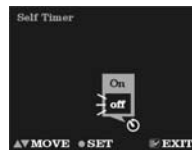
- **Step 1.** Use ◀▶ to select **EV** on the menu bar.
- **Step 2.** Press **Enter** button to enter **Exposure Value** menu.



- **Step 3** You can use ◀▶ to set **-2EV**, **-1.5EV**, **-1EV**, **-0.5EV**, **0EV**, **+0.5EV**, **+1EV**, **+1.5EV**, and **+2EV**.
- **Step 4** Press **Enter** button to confirm your selection, or press **Menu** button to cancel it.

Self-Timer Setting


- **Step 1** Use ◀▶ to select  on the menu bar.
- **Step 2** Press **Enter** button to enter **Self-Timer** setting menu.



- **Step 3** You can use ▲▼ to select **ON**, **Off**.

- **Step 4** Press **Enter** button to confirm your selection, or press **Menu** button to cancel it.

To Take a picture with self-timer


With the Self-timer function set to "On," the Self-timer icon  appears at the center of the LCD display.

When the **Shutter** button is pressed, the self-timer icon disappears while a number appears, counting down from 10, beeping while the self-timer LED blinks.



After the countdown reaches zero, the Digital Video Camera will take a picture.

Date Stamp setting

- **Step 1.** Use ◀▶ to move to  on the menu.

- **Step 2.** Press the **Enter** button to enter **Date Stamp** setting menu.



- **Step 3.** You can use ▲▼ to select **ON**, **Off**.
- **Step 4.** Press the **Enter** button to confirm your selection, or press the **Menu** button to cancel it.

Note: After setting the date stamp on, the date will display on the LCD panel, and dates will be stamped on captured pictures.

Flash

The **Flash** function is active only in **Capture Mode**. The **Flash** has two statuses. Pressing the **Right arrow** button ► can sequence it into **Auto** and **OFF** status.



Photo/Movie/Voice Playback Mode

Press the **Playback** button for **Playback Mode**

Status Identifier



- ❶ Image Number.
- ❷ Image Total.
- ❸ Movie File Indicator.
- ❹ Movie Play Length
- ❺ Locking Indicator
- ❻ Battery Indicator

Image Playback

Press **▲▼** to play back the previous image or the next image.

Press the **Enter** button to enter the image zoom modes

Press the **Up** button **▲** to zoom in on the image

Press the **Down** button **▼** to zoom out from the image

In this mode, press the **menu** button for pan modes



In this mode, you can press any of the following **[▲]** · **[▼]** · **[▶]** · **[◀]** to preview the partial images.

Press the **Enter** button to quit the zoom modes or pan modes.



Movie Playback

When it comes to movie files, the movie indicator appears on the upper-left screen corner. Press the **Enter** button to start playing the movie. Press the **Enter** button to stop playing the movie.

In movie playback you can press the **Up** button **▲** or **Down** button **▼** to adjust volume. The volume indicator will appear on lower-right corner of the screen. Press the **Menu** button to pause.



Voice playback

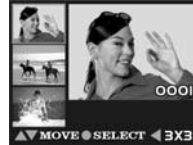
Voice files are indicated by a voice icon. Press the **Enter** button to start playing the voice file. Press the **Menu** button to pause play. Press **Enter** button to stop playing back voice.

During voice playback, press the [▲] · [▼] button to adjust volume and then the volume appears on left side of the screen. Press [▶] · [◀] button to adjust the play time.

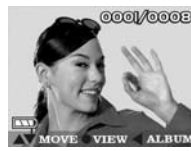


Album Function

- **Step 1.** Enter **Playback Mode**.
- **Step 2.** Press **Left** button ◀ to enter 3-frame Album function , which shows 3 images per page with a mid-size preview window. Use ▲▼ to change previewing images. (Press **ENTER** to return to Playback Mode and display selected images in full screen.)



- **Step 3.** Press the **Left** button ◀ again to enter the 3x3 Album, which supports to playback of 9 images on a page, then use ▲▼ to select image.
- **Step 4.** Press **ENTER** to play back the selected image full screen .



Playback Menu

Deleting Photos

You can choose to delete a single photo or all the photos stored in the Digital Video Camera.

Deleting a Single Photo

- **Step 1.** Make sure that the Digital Video Camera is in playback mode.

Example: Move to the picture which is going to be deleted.

- **Step 2.** Press the **Menu** button to enter the **Playback Menu** and then move to **DEL** with ◀▶

Press the **Menu** button at this point the screen to return to **step 1**.



- **Step 3.** Press the **Enter** button to bring up Delete menu: **Delete One** and **Delete All**.

If press **Menu** button, the screen will return to **step 2**.

- **Step 4.** Press the **Enter** button to confirm **Delete One**, then bring up current picture with Delete menu: **Cancel** and **Photo Number**.

If you press the **Menu** button, the screen will return to **step 2**.



● **Step 5.** Press **Enter** to confirm your deletions. The image shown on the display will then be deleted and the previous image comes up. If you press the **Menu** button, the screen will return to **step 2**.



● **Step 6.** Select **Cancel** to stop deleting operation and go back to the Playback Menu.

Deleting All Photos

You may also choose to delete all the photos if the memory is already full and you want to free up space to take more photos. But before you remove all photos, remember to transfer them to your computer for safekeeping.

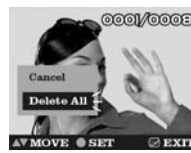
● **Step 1** Make sure that the Digital Video Camera is in playback mode.

● **Step 2** Press the **Menu** button to enter **Playback Menu**. If press **Menu** button, the screen will return to **step 1**.



● **Step 3.** Press the **Enter** button to bring up Delete menu: **Delete One** and **Delete All**. If press **Menu** button, the screen will return to **step 2**.

● **Step 4** Press **▲▼** to select the **Delete All** option on the menu screen. If press **Menu** button, the screen will return to **step 2**.



- **Step 5** Press **Enter** button to confirm **Delete All**, then bring up current picture with Delete menu: **Cancel** and **Delete All**.
- **Step 6** Press **▲▼** to select the **Delete All** option on the menu screen, and then press **Enter** button to confirm the erasing operation again.

If you change your mind and do not want to continue deleting all the pictures, press **▲▼** to select **Cancel** on the menu screen. Then press the **Enter** button. All your pictures will be retained.

- **Step 7** After all the pictures have been deleted, there is a message showing:
No picture

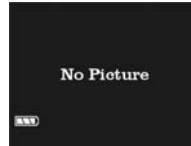
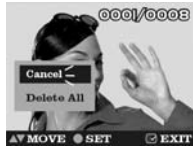


Image protection

You can choose to protect specific photos to prevent accidental deletion.

- **Step 1.** Press the **Menu** button to enter **Playback Menu**.

If you press the **Menu** button, the screen will return to **step 1**.


- **Step 2.** Use **◀▶** to select **⏏**




- **Step 3.** Press **Enter** button to bring up **Protect Menu**.

If press **Menu** button, the screen will return to **step 3**.

- **Step 4.** Press **▲▼** to select one image for protection.

- **Step 5.** Press the **Enter** button to protect the current image. The lock icon  will appear on the top right corner of the image that you selected. This means the image has been protected.



- **Step 6** If the current image has already been protected, you can press the **Enter** button to unprotect it, and then icon  will disappear from the right top corner of the image. This means the image protection had been disabled.

If press **Menu** button, the screen will return to **step 3**.

Slide Show

You can slide show all pictures previously taken with the Digital Video Camera.

- **Step 1.** Use **◀▶** to move to 

- **Step 2.** Press **Enter** button to bring up **Slide Show** Menu: **Cancel** and **Start**.

If you press the **Menu** button, the screen will return to **step 1**.



- **Step 3.** Press **▲▼** to select the **Start** on the menu screen, and then press **Enter** button to slide show all of your pictures.
- **Step 4.** Press the **Enter** button to stop slide show.



DPOF Function

Selecting the DPOF option in Playback Menu can directly send your selected photo to the compatible printers that read DPOF (Digital Print Order Format) files.

- **Set All Pictures to DPOF file**

- **Step 1.** Press the **Menu** button to enter **Playback Menu**.

If you press the **Menu** button, the screen will return to **step 1**.

- **Step 2.** Use **◀▶** to move to **DPOF**

If you press the **Menu** button, the screen will return to **step 1**.



- **Step 3.** Press the **Enter** button to bring up **DPOF** Menu: **Set All** and **Set One**.

If you press the **Menu** button, the screen will return to **step 2**.

- **Step 4.** Press **▲▼** to select **Set All** on the menu screen, and then press the **Enter** button to set all of your pictures, which would indicate print number 1 only, to **DPOF** files unless specific picture marked from following **Set Single Picture** process.



Note: All pictures which have not been set to DPOF file, will be set to DPOF file, and print number 1.

You can reset all **DPOF** pictures by select **Reset All** and then press **Enter** Button.

Set Single Picture to DPOF file

- **Step 1.** Press the **Menu** button to enter **Playback Menu**.

If you press the **Menu** button, the screen will return to **step 1**.

- **Step 2.** Use **◀▶** to move to **DPOF**

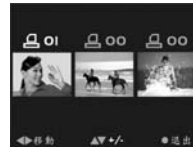
If you press the **Menu** button, the screen will return to **step 1**.



- **Step 3.** Press the **Enter** button to bring up the **DPOF** Menu: **Set All** and **Set One**.

If you press the **Menu** button, the screen will return to step 3.

- **Step 4.** Press ▲▼ to select **Set One** option on the menu screen, and then press **Enter** button to enter menu for setting single picture to DPOF file.



- **Step 5.** Press ◀▶ to select single picture, use ▲▼ to adjust print number, number **zero** means this picture is not set in **DPOF** file.
- **Step 6.** After setting a single picture to **DPOF** file, press the **Enter** button to return to **Step 3**.

5. Connecting to Your Computer

You will need to connect the Digital Video Camera to your computer's USB port to transfer photos into your computer. This section shows how you can connect the Digital Video Camera to your computer.

First, you must install the Digital Video Camera Driver from the software CD-ROM before connecting to ensure your computer functions properly with USB. See the section "**Installing Software**" for details on how to install the driver.

Using the Digital Video Camera as a Web camera or as a Mass Storage Drive

When you connect the Digital Video Camera to your computer, you can use it as a Web camera or as a Mass Storage drive. You can then join in video conferencing sessions on the Internet. You need to install the Digital Video Camera Driver and required application softwares from the software CD-ROM before you can start using it as a Web camera. See the section "**Installing Software**" for installation instructions.

Using the Digital Video Camera as a Web camera lets you capture video directly into your computer for later editing or enhancing your videos. See the section "**Installing Software**" for installation instructions.

- **Step 1.** Make sure the Digital Video Camera has two "AA" batteries in the compartment.
- **Step 2.** Connect the smaller end of the USB cable into the USB port of your Digital Digital Video Camera.



Note: Make sure to gently plug the USB cable in the right direction to avoid possible damage to USB connector.

- **Step 3** Connect the other end of the USB cable to the USB port located on the back of your computer.

The Digital Video Camera's LCD Panel will turn on and enter

PC Connection Menu.



● **Step 4** Press ▲▼ to select **Mass Storage Drive** or **PC Camera** option on the menu screen, and then press **Enter** button to enter menu for Using the Digital Video Camera as a Web camera or a Mass Storage drive.

Connecting to Your TV/VCR

Connect your Digital Video Camera to a television if you want to have a larger view of your photos.

- **Step 1.** Connect the black colored plug of the Audio/Video output cable into the Audio/Video out port in the Terminal Compartment on the left side of the Digital Video Camera.
- **Step 2.** Connect the other end of the audio (the white plug) and video (the yellow plug) output cable to the Audio-in and Video-in plug on your TV/VCR.



Note: Locate the Audio/Video ports on your individual TV/VCR and insert the video output connector into the Video port.

- **Step 3.** On your television, select the channel for auxiliary Audio/Video input.

Note: Channels may vary by manufacturer; refer to your VCR's operating manual for specific channel to use.

System Requirements

Although you can get by with the following minimum system requirements and use the Digital Video Camera, we recommend that you use a computer system that exceeds the minimum requirements in order to utilize the Digital Video Camera at its optimum efficiency. The minimum system requirements for the Digital Video Camera are as follows:

System (PC) Requirements	
OS	Microsoft Windows 98SE/Me/2000/XP
CPU	Intel Pentium 166MHz or higher
Memory	Minimum 32 MB memory or above
CD-ROM	4X or above
HDD	10 MB free disk space (minimum)
Others	One standard USB 1.1 port

Note: Before playing Video Clips (*.AVI file), make sure your PC has DirectX8.0 or higher and a sound card.

6. Installing Software

You can use the **PC Camera** and **Mass Storage** functions of the camera via PC. To install the camera driver:

- **Step 1.** Insert the software CD-ROM supplied with the package into the CD-ROM drive.

- **Step 2.** The Auto-run program will be executed and the welcome screen appears: (If your CD-ROM drive doesn't support the auto-run function. Please double press on the **"My Computer"** icon on the desktop. Double press the CD-ROM drive icon and press the **InstallMgr.exe** file in the root directory.



- **Step 3.** Click on Install Driver, and the following screen will appear:

- **Step 4.** Press **Next** to continue the setup program. After the camera driver installs successfully, a message will appear on the screen:



- **Step 5.** Press Finish to restart the computer and finish the driver installation.

7. Installing the Applications for PC

Install **Arcsoft Software** (Example: Arcsoft Photo Impression)

- **Step 1.** Insert the software CD-ROM supplied with the package into the CD-ROM drive.

- **Step 2** The Auto-run program will execute and the welcome screen appears:

(If your CD-ROM drive doesn't support the auto-run function, please double click on the "My Computer" icon on the desktop. Double click the CD-ROM drive icon, then click the **InstallMgr.exe** file in the root directory.



- **Step 3.** Click **Arcsoft PhotoImpression** to install, and the screen will appear as follows:



- **Step 4** Select the language for installation. Click **Enter** button to confirm.

- **Step 5** You will see the Welcome screen. Click **Next** to continue.

- **Step 6** Enter **Software License Agreement** window. Click **Yes** to continue installation.



- **Step 7** Please follow the Wizard instructions to select a destination folder and components you need.

Appendix: Camera Specifications

- **Lens:** f=9.6 mm
- **Image Sensor :** 2.0 mega pixel CMOS sensor
- **Focus:** F/2.8
- **Sensitivity:** ISO 100
- **White Balance:** Auto, Sunny, Tungsten, Fluorescent.
- **Shutter:** Electrical
- **Shutter Speed :** 1/4 sec. ~ 1/2000 sec.
- **Storage Media:** 16MB Internal Flash Memory and SD/MMC Card Slot
(supports max. 512MB card)
- **Image File Format:** JPEG for Still Image; AVI for Motion Image
- **Image Resolution:**
 - 2304x1728 (Firmware Interpolation)
 - 2048 x 1536 (Firmware Interpolation)
 - 1600 x 1200
 - 640 x 480
- **Digital Zoom:** 10-Step 4X Digital Zoom
- **Focal Range:** Standard: 1.2m ~ Infinity
Macro: 25 ~ 30cm
- **Self-timer:** 10 sec. delay
- **PC-CAM Mode :** 20~30 fps. (320 x 240) ; 15~25 fps. (640 x 480)
- **Flash Mode:** Auto, Off
- **AV-OUT:** NTSC/PAL options
- **PC Connectio:** USB (Ver. 1.1)
- **Movie File:** Recording approx. 120 sec. continuous movie file with 320 x 240 format (16MB internal memory), the movie length may vary according to the Quality setting, and extends if there is a memory card inserted.
- **Recordable Image Numbers (16MB):**

		640X480	1600X1200	2048X1536	2304X1728
16MB	Fine	85	15	10	5
	Normal	130	25	20	15
	Basic	180	30	25	20

- **Power Supply:** 2 x "AA" alkaline Batteries or supports CRV-3.
- **Dimensions:** 93 x 56 x 38 mm
- **Weight:** About 120g (batteries excluded)